SPECIFICATION

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POLYCARBONATE RESIN COMPOSITIONS AND ARTICLES THEREFROM

Cross Reference to Related Applications

This application is a divisional of U.S. Application Serial No. 09/923,630 filed on August 7, 2001, which is herein incorporated by reference.

Background of Invention

[0001] The invention relates to flame retardant polycarbonate resin compositions and articles made therefrom having high transparency.

[0002] Polycarbonate resin compositions are used in a variety of fields including automobiles, electric, electronic, machinery, building and construction applications and the like. Resins used for some of the above-mentioned applications must pass strict flame retardancy requirements, e.g., the flame-retardancy standard according to UL-94 in the U.S.A. Such tests typically involve exposing an object made from the resin to a flame or other heat source for a certain time period. The object may fail the test by catching fire, remaining on fire for too long a period, or by partially melting and dripping flaming resin droplets on a flammable material placed below the object. In some applications requiring miniaturization and/or very thin molded articles, there is an increased risk of a flaming droplet arising from the thinned part of the shaped article. Resins used in such applications need to fulfill the requirements for obtaining a V0-rating according UL-94, i.e. short flame-out times (<10 s) and no (burning) drips that ignite a layer of cotton placed beneath the object.

[0003] Satisfactory UL94 V0-ratings of polymers do not always guarantee a good fire performance in building and construction applications. One reason for this